INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

FEB 19 2004 PATENT & TRADEMARK OFFICE OIPE JC167

Docket Number (Optional)	Application Number
133843-1	10/678,244
Applicant(s)	
Peter Henry Tu et al	
Filing Date	**Group Art Unit**
10/03/2003	2621

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation YES	Translation NO

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

HA	1	M. D. R. Babu, C.-H. Lee, and A. Rosenfeld. Determining plane orientation from specular reflectance. Pattern Recognition, 18(1):53-62, Jan. 1985.
HA	2	H. H. Baker and T.O. Binford. Depth from edge and intensity based stereo. In Proc. of the 7th Intern. Joint Conference on Artificial Intell., pages 631-636, Aug. 1981.

EXAMINER	DATE CONSIDERED
/Hadi Akhavannik/ (02/12/2007)	02/12/2007

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION *(Use several sheets if necessary)*	Docket Number (Optional) 133843-1	Application Number 10/678,244
	Applicant(s) Peter Henry Tu et al.	
	Filing Date 10/03/2003	Group Art Unit 2621

*EXAMINER INITIAL		OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*
HA	3	H. Gouraud. Continuous shading of curved surfaces. IEEE Trans. on Comput., 20(6):623-629, June 1971.
HA	4	B. K. P. Horn, Obtaining shape from shading information. In P.H. Winston, editor, The Psychology of Computer Vision, pages 115-1 55. McGraw-Hill, New York, 1975.
HA	5	B. K. P. Horn. Understanding image intensities. Artificial Intelligence, 8(2):201-231, Apr. 1977.
HA	6	B. K. P. Horn and M. J. Brooks, editors. Shape from Shading. Artificial Intelligence Series. MIT Press, Massachusetts, USA, 1989.
HA	7	B. K. P. Horn, R. J. Woodham, and W. M. Silver. Determing shape and reflectance using multiple images. Technical Report 490, MIT, Massachusetts, USA, Aug. 1978.
HA	8	J. J. Koenderink and A. J. van Doom. Geometrical modes as a general method to treat diffuse interreflections in radiometry. J. Opt. Soc. America, 73(6):843-850, June 1983.
HA	9	S. Magda, D. J. Kriegman, T. E. Zickler, and P. N. Belhumeur. Beyond lambert: Reconstructing surfaces with arbitrary BRDFs. In Proc. 8th Int. Conf. on Computer Vision, volume II, pages 391-398, Vancouver, Canada, July 2001.
HA	10	S. K. Nayar, K. Ikeuchi, and T. Kanade. Shape from inter-reflections. Int. Journal of Computer Vision, 6(3): 173-195, Aug. 1991.
HA	11	F. E. Nicodemus. Radiometry, volume IV of Applied Optics and Optical Engineering. Academic Press, New York, 1967.
HA	12	Y. Ohta and T. Kanade. Stereo by intra- and inter-scan line search using dynamic programming. IEEE Trans. Pattern Analysis and Machine Intell., 7(2):139-154, Mar. 1985.
HA	13	M. Oren and S. Nayar. Generalization of the lambertian model and implications for machine vision. Int. Journal of Computer Vision, 14(3):227-251, Apr. 1995.
HA	14	M. Oren and S. K. Nayar. A theory of specular surface geometry. Int. Journal of Computer Vision, 24(2):105-124, Sept. 1996.

EXAMINER	DATE CONSIDERED
/Hadi Akhavannik/ (02/12/2007)	02/12/2007

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION *(Use several sheets if necessary)*	Docket Number (Optional) 133843-1	Application Number 10/678,244
	Applicant(s) Peter Henry Tu et al.	
	Filing Date 10/03/2003	Group Art Unit 2621

*EXAMINER INITIAL		OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*
HA	15	B. T. Phong. Illumination for computer-generated pictures. Comm. of the ACM, 18(6):311-317, June 1975.
HA	16	J. W. S. B. Rayleigh. On the law of reciprocity in diffuse reflection. Philosophical Magazine, 49:324-325, 1900.
HA	17	W. C. Snyder. Structured surface BRDF reciprocity: Theory and counterexamples. Applied Optics, 41(21):4307-4313, July 2002.
HA	18	P. Thrift and C-H. Lee. Using highlights to constrain object size and location. IEEE Trans. Sys., Man and Cybern., 13:426-431, 1983.
HA	19	H. von Helmholtz. Treatise on Physiological Optics. Dover, New York, 1925. Translated from the 1856 German edition.
HA	20	T. Wada, H. Ukida, and T. Matsuyama. Shape from shading with interreflections under a proximal light-source: Distortion-free copying of an unfolded book. Int. Journal of Computer Vision, 24(2)125-1 35, Sept. 1997.
HA	21	Y. Weiss. Deriving intrinsic images from image sequences. In Proc. 8th Int. Conf. on Computer Vision, volume II, pages 68-75, Vancouver, Canada, July 2001.
HA	22	R. J. Woodham. Reflectance Map Techniques for Analyzing Surface Defects in Metal Castings. PhD thesis, MIT, Massachusetts, USA, Sept. 1977.
HA	23	R. J. Woodham. Photometric stereo. Technical Report 479, MIT, Massachusetts, USA, June 1978.
HA	24	R. J. Woodham. Photometric method for determining surface orientation from multiple images. Optical Engineering, 19(l):139-144, January/February 1980.
HA	25	T. Zickler, P. N. Belhumeur, and D. J. Kriegman. Helntholtz stereopsis: Exploiting reciprocity for surface reconstruction. In A. Heyden, S. G., M. Nielsen, and P. Johansen, editors, Proc. 7th European Conf. on Computer Vision, volume 3 of Lecture Notes in Computer Science 2352, pages 869-884, Copenhagen, Denmark, May 2002.

EXAMINER	DATE CONSIDERED
/Hadi Akhavannik/ (02/12/2007)	02/12/2007

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

OIPE IAP17
MAY 30 2006
PATENT & TRADEMARK OFFICE

PTO/SB08B (08-03)
Approved for use through 07/31/2006, OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary

Sheet	1	of	1

Complete if Known	
Application Number	10/678,244
Filing Date	October 3, 2003
First Named Inventor	Peter H. Tu et al.
Art Unit	2621
Examiner Name	Unassigned
Attorney Docket Number	133843-1/YOD (GERD:0331)

NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
HA	C1	TU et al.; "Surface Reconstruction Via Helmholtz Reciprocity with a Single Image Pair; Proceedings 2003 IEEE Conference on Computer Vision and Pattern Recognition. CVPR 2003; Madison, WI, June 18-20, 2003, Vol. 2 of 2; June 18, 2003; pages 541-547.	
HA	C2	ZICKLER ET AL.; "Toward a Stratification of Helmholtz Stereopsis"; Proceedings 2003 IEEE Conference on Computer Vision and Pattern Recognition; CVPR 2003; Madison, WI, June 18-20, 2003: Vol. 2 of 2; pages 548-555	
HA	C3	VIOLA et al.; "Alignment by Maximization of Mutual Information"; International Journal of Computer Vision; Kluwer Academic Publishers, Norwell, US; vol. 24, no. 2; September 1997; pages 137-154.	
HA	C4	MAURER et al.; "Registration of 3-D Images Using Weighted Geometrical Features"; I EEE Transactions on Medical Imaging, IEEE Service Center, Piscataway, NJ, US; vol. 15, n. 6, December 1996; pages 836-849.	
HA	C5	ZICKLER et al.; "Helmoholtz Stereopsis Exploiting Reciprocity for Surface Reconstruction"; International Journal of Computer Vision, vol. 49, no. 2-3, September 2002; pages 215-227.	
HA	C6	TU et al.; "Surface Registration with a Helmoholtz Reciprocity Image Pair"; IEEE Workshop on color and Photometric Methods in Computer Vision; Online; October 12, 2003; URL:http://lear.inrialpes.fr/people/triggs/events/iccv03/cdrom/cpmcv03/32_tu.pdf.	

/Hadi Akhavannik/ (02/12/2007)

02/12/2007